



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Mel Carnahan, Governor • David A. Shorr, Director

DIVISION OF GEOLOGY AND LAND SURVEY
P.O. Box 250 111 Fairgrounds Rd. Rolla, MO 65401-0250
FAX (314)368-2111

NOTICE TO CANCEL PERMIT APPLICATION

TO THE MISSOURI OIL AND GAS COUNCIL:

WALTON 41W (lease name and well number) has not been drilled and requires no remedial or plugging actions as required by Missouri Oil and Gas Council Rules and Regulations.

Permit No. 20551

County Cass

CERTIFICATE: I, the undersigned, state that I am the (your title)
_____Town _____ of the _____ (company) and that I am authorized to make this report; and that this report was prepared under my supervision and direction and the facts stated herein are true, correct, and complete to the best of my knowledge.

Signature: David Eller Date: 7/18/93

DNR - letter from Lator Town

OGC Misc. Form 2

INJECTION WELL PERMIT APPLICATION: to drill, deepen, plug back, or convert an existing well

APPLICATION TO DRILL DEEPEN PLUG BACK CONVERSION NAME OF COMPANY OR OPERATOR Town Oil Co.DATE 9-22-92Rt. 4

Address

Paola

City

Kansas 66071

State

DESCRIPTION OF WELL AND LEASE

Name of lease <u>Walton</u>	Well number <u>41-W</u>	Elevation (ground) <u>approx 1050</u>					
WELL LOCATION <u>1359</u> ft. from (N) sec sec line	(give footage from section lines) <u>2434</u> ft. from (E) sec sec line						
WELL LOCATION Section <u>4</u> Township <u>46</u> Range <u>33</u>	COUNTY <u>Cass</u>						
Nearest distance from proposed location to property or lease line _____ feet							
Distance from proposed location to nearest drilling, completed or applied — for well on the same lease _____ feet							
Proposed depth <u>600</u>	Rotary or Cable tools <u>Rotary</u>	Drilling Contractor, name and address <u>Company Tools</u>					
Number of acres in lease <u>approx 80</u>		Approx. date work will start <u>When approved</u>					
Number of wells on lease, including this well, completed in or drilling to this reservoir: _____							
Number of abandoned wells on lease: _____							
If lease purchased with one or more wells drilled, from whom purchased? Name <u>Harry Knoche</u> Address <u>Belton, MO.</u>		No of Wells: producing _____ injection _____ inactive _____ abandoned _____					
Status of Bond Single Well <input type="checkbox"/> Amt. _____	Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</u>	ON FILE <input checked="" type="checkbox"/> ATTACHED <input type="checkbox"/>					
Outline Proposed Stimulation Program							
Water injection and secondary recovery							
Proposed casing program amt. <u>600</u>	size <u>2"</u>	wt/ft <u>3.75</u>	to surface	Approved casing — To be filled in by State Geologist amt. <u>600'</u>	size <u>2"</u>	wt/ft <u>3.75</u>	to cem. <u>To Surface</u>
I, the undersigned, state that I am the <u>Partner</u> of the <u>Town Oil Co.</u> and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. Signature <u>Lester Town</u>							

Permit Number #20551 SAMPLES REQUIRED SAMPLES NOT REQUIREDApproved Date 10/9/92WATER SAMPLES REQUIRED @ "Approved by Jane Kelly WilliamsNote: This Permit not transferable to any other person
or to any other locationRemit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, MO 65401

One will be returned for driller's signature

RECEIVED
SEP 25 1992

I, Lester Town, of the Town Oil Co.

Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized Council representative.

Driller's signature Lester Town

Date 9-21-92

Proposed Operations Data

Proposed average daily injection, pressure 400 psig, rate 25 bpd/gpm, volume 300 bbl/gal

Approved average daily injection,
(to be filled in by State Geologist). pressure 400 psig, rate 25 bpd/gpm, volume 300 bbl/gal

Proposed maximum daily injection, pressure 600 psig, rate 50 bpd/gpm, volume 1000 bbl/gal

Approved maximum daily injection,
(to be filled in by State Geologist). pressure 600 psig, rate 50 bpd/gpm, volume 1000 bbl/gal

Estimated fracture pressure/gradient of injection zone Breakdown 800 psi/foot

Describe the source of the injection fluid produced and fresh water

Submit an appropriate analysis of the injection fluid. (Submit on separate sheet).
See enclosed water analysis report

Describe the compatibility of the proposed injected fluid with that of the receiving formations, including total dissolved solids comparisons.

Same

Give an accurate description of the injection zone including lithologic descriptions, geologic name, thickness, depth, porosity, and permeability.

Cattleman sand, approx. 25' thick, 542 to 579

Porosity 21.8; permeability 47

Give an accurate description of the confining zones including lithologic description, geologic name, thickness, depth, porosity, and permeability.

Sandy shale and sandy lime imp

Submit all available logging and testing data on the well.

Give a detailed description of any well needing corrective action which penetrates the injection zone in the area of review ($\frac{1}{2}$ mile radius around well). Include the reason for and proposed corrective action.

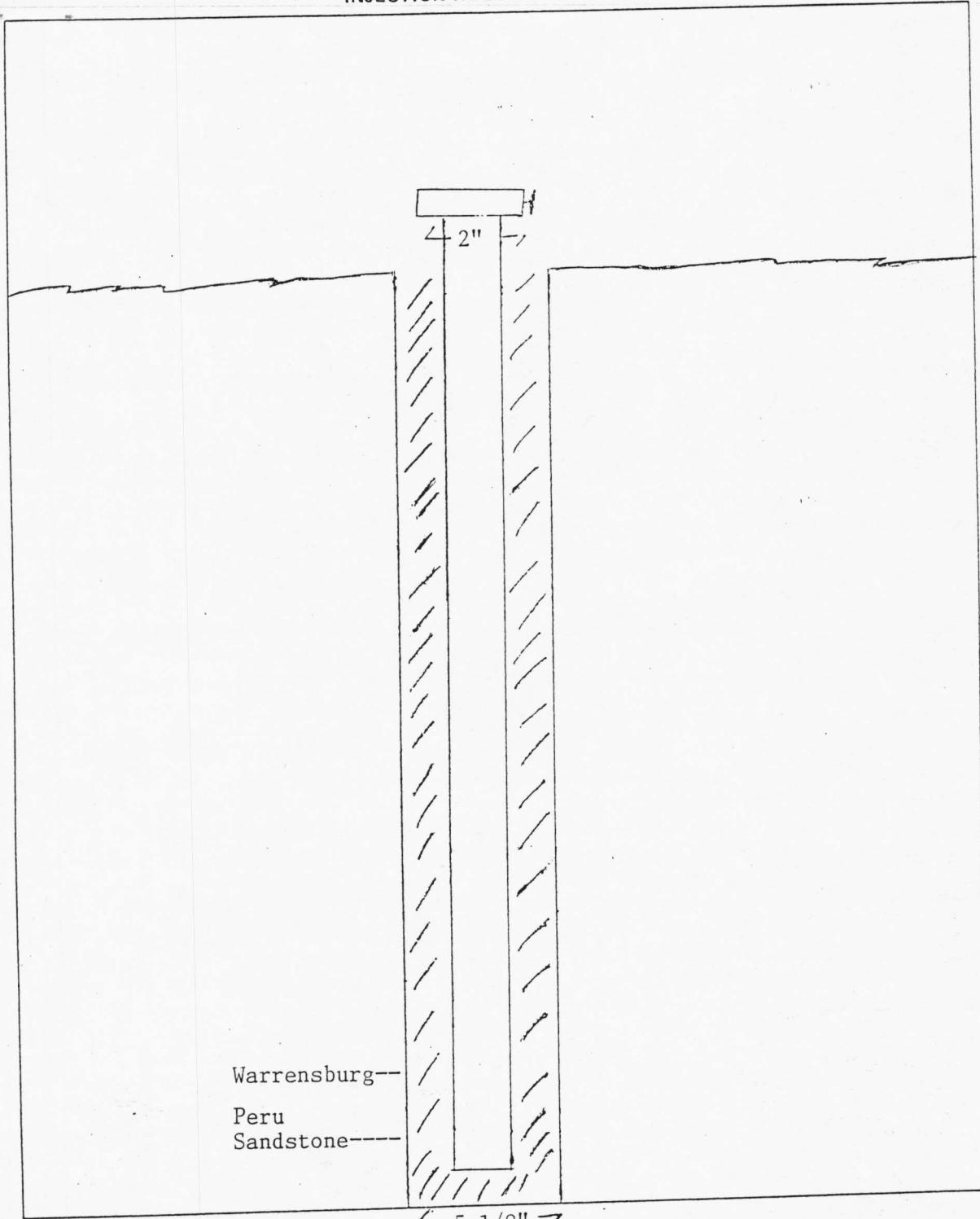
None

County Cass

Permit #

Operator Town OilWell # 41-WMissouri Oil and Gas Council
INJECTION WELL SCHEMATIC

Form OGC-11

**Instructions**

On the above space draw a neat accurate schematic diagram of the applicant injection well including the following: configuration of well head, total depth or plug back total depth, depth of all injection or disposal intervals, and their formation names, lithology of all formations penetrated, depths of the tops and bottoms of all casing and tubing, size and grade of all casing and tubing, and the type and depth of packer, depth, location, and type of all cement, depth of all perforations and squeeze jobs, and geologic name and depth to bottom of all underground sources of drinking water which may be affected by the injection. Use back if additional space is needed, or attach sheet.

R E C E I V E D
SEP 25 1982

MO Oil & Gas Council

-2-

This core was sampled and the samples sealed in plastic bags by a representative of the client. The core was taken using fresh water mud as the circulating fluid.

FORMATION CORED

The detailed log of the formation cored is as follows:

Depth Interval, Feet	Description
540.0 - 542.7	Brown and gray laminated slightly calcareous sandstone and shale.
542.7 - 562.1	Brown slightly calcareous sandstone.
562.1 - 562.8	Light brown slightly calcareous shaly sandstone.
562.8 - 570.6	Brown slightly calcareous sandstone.
570.6 - 575.8	Hard gray conglomeratic calcareous limestone.
575.8 - 576.5	Light brown slightly calcareous sandstone.
576.5 - 577.0	Gray conglomeratic calcareous sandstone.
577.0 - 579.4	Brown slightly calcareous sandstone.
579.4 - 580.7	Hard gray conglomeratic calcareous limestone.

LABORATORY FLOODING TESTS

The sand in this core responded to laboratory flooding tests, as a total recovery of 2,319 barrels of oil per acre was obtained from 23.9 feet of sand. The weighted average percent oil saturation was reduced from 47.0 to 41.3, or represents an average recovery of 5.7 percent. The weighted average effective permeability of the samples is 1.58 millidarcys.

Area of Coverage West: ($\frac{1}{2}$ mile radius around well) that penetrate the injection interval

Lease	Well #	Location	Owner	Depth	Type	Completion Date	Construction	
							Plugs	Perf.
Walton	5W	1201' from (N)(S) sec. line 2200' from (E)(W) sec. line	Town 011	600	0	2/82	2/82	Surface: 9" hole 6½" casing 20.9' Production: 5 1/8" hole 2" casing 592'
Walton	6W	1555' from (N)(S) sec. line 2330' from (E)(W) sec. line	Town 011	593	0	9/77	9/77	Surface: 6½" casing 20' Production: 2" casing 573'
Walton	8W	1580' from (N)(S) sec. line 1595' from (E)(W) sec. line	Town 011	614	0	9/77	9/77	Surface: 6½" casing 18' Production: 2" casing 612'
Walton	20	2229' from (N)(S) sec. line 2383' from (E)(W) sec. line	Town 011	550	0	2/76	2/76	Surface: 8" hole 8" casing 20' Intermediate 8" hole 6½" casing 456' Producing: 6½" hole 4½" casing 535'
Walton	22	1413' from (N)(S) sec. line 1775' from (E)(W) sec. line	Town 011	594	0	8/76	8/76	Surface 8" hole 8" casing 23' Production: 6½" hole 4½" casing 570'
Walton	24	164' from (N)(S) sec. line 2505' from (E)(W) sec. line	Town 011	620	0	1/81	1/81	Surface: 8 5/8" hole 6½" casing 21' Production: 5½" hole 2" casing 620'
Walton	25	165' from (N)(S) sec. line 2835' from (E)(W) sec. line	Town 011	620	0	11/80	11/80	Surface 8 5/8" hole 6½" casing 21' Production: 5½" 2" casing 610'
Walton	26	165' from (N)(S) sec. line 2140' from (E)(W) sec. line	Town 011	620	0	10/80	10/80	Surface: 8 5/8" hole 6½" casing 22' Production: 5½" hole 2" casing 600'

Artech additional sheets if necessary

Instructions
At the above grid place the descriptions of area of review wells ($\frac{1}{2}$ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following, please.

SEP 25 1992

Area of Review Wells (½ mile radius around well) that Penetrate the Injection Interval

Lease	Well #	Location	Owner	Depth	Type	Perf. & Casing Pep. & Casing Sec.	Construction
Asjes	E-4	812' from (N)(X) sec line 882' from (E)(W) sec line Sec 4 T 46 N R 33N	Town Oil Co.	629	0	11/ 81	Surface: 9" hole 6½" casing 20' Production: 5¾" hole 2" casing 640'
Asjes	G-2	1306.5' from (N)(X) sec line 1187.5' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	669.4	0	11/ 81	Surface: 9" hole 6½" casing 20' Production: 5¾" hole 2" casing 670'
Asjes	G-4	1303' from (N)(X) sec line 972' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	666.0	0	11/ 81	Surface: 9" hole 6½" casing 17.6' Production: 5¾" hole 2" casing 670'
Beary	A-52	165' from (N)(X) sec line 1872' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	642	0	1/81	Surface: 9" hole 7" casing 21' Production: 6½" hole 4" casing 628.4'
Beary	52C	546.4' from (N)(X) sec line 1872.2' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	640	0	1/81	Surface: 9" hole 7" casing 35' Production: 6½" hole 4" casing 627.80'
Beary	E-52	927.9' from (N)(X) sec line 1872.2' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	641	0	1/81	Surface: 9" hole 7" casing 21.583' Production: 6½" hole 4" casing 628.35'
Beary	53B	355.7' from (N)(X) sec line 1762.2' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	640	0	1/81	Surface: 9" hole 7" casing 21.583' Production: 6½" hole 4" casing 630.85'
Beary	E-2	738.1' from (N)(X) sec line 1762.2' from (E)(W) sec line Sec 4 T 46 N R 33W	Town Oil Co.	640	0	1/81	Surface: 9" hole 7" casing 20.9' Production: 6½" hole 4" casing 627.5'

Attach additional sheets if necessary

Instructions
In the above grid place the descriptions of area of review wells (½ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil - O, Gas - G, Water - W, Injection I, Strat Test S, Unknown U), Other specify), date spud/did, date com-

plete construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing, and subsurface casing information.

Area of Review Wells ($\frac{1}{2}$ mile radius around well) that Penetrate the Injection Interval

Line #	Well #	Location	Owner	Depth	Type	Construction		
						Top Elev.	Bottom Elev.	Completion Elev.
Walton	29	495' from (N) 10 sec. line 2140' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil	608	0	9/77	10/77	Surface: 7" casing 74' Production: 4" casting 596'
Walton	31	1261' from (N) 10 sec. line 1512' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil	590	0	1/81	2/81	Surface: 8 5/8" hole 6 $\frac{1}{4}$ " casing 21' Production: 5 $\frac{1}{4}$ " hole 2" casting 502'
Walton	32	1258' from (N) 10 sec. line 1847' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil	600	0	2/82	2/82	Surface: 9" hole 6 $\frac{1}{4}$ " casing 20' Production: 5 1/8" hole 2" casing 588.05
Walton	37	2221' from (N) 10 sec. line 1518' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil	595	0	3/82	3/82	Surface: 9" hole 6 $\frac{1}{4}$ " casing 20.5' Production: 5 1/8" hole 6 $\frac{1}{4}$ " casing 595.20
Asjes	C-4	547' from (N) 10 sec. line 882' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil Co.	639	0	11/81	11/81	Surface: 9" hole 6 $\frac{1}{4}$ " casing 20' Production: 5 $\frac{1}{4}$ " hole 2" casing 640'
Asjes	C-6	547' from (N) 10 sec. line 559' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil Co.	634	0	7/81	7/81	Surface: 9" hole 6 $\frac{1}{4}$ " casing 20' Production: 5 $\frac{1}{4}$ " hole 2" casing 636.5'
Asjes	C-8	547' from (N) 10 sec. line 18' from (E) 10 sec. line sec. 4 T. 46 N.R. 33W	Town Oil	670	0	7/81	7/81	Surface: 9" hole 6 $\frac{1}{4}$ " casing 22' Production: 5 $\frac{1}{4}$ " hole 2" casing 660'
Asjes	C-10	54' from (N) 10 sec. line 159' from (E) 10 sec. line C	Town Oil	636	0	9/81	9/81	Surface: 9" hole 6 $\frac{1}{4}$ " casing 20' Production: 5 $\frac{1}{4}$ " hole 2" casing 636.5'

which additional sheets if necessary

Instructions:

In the above grid place the descriptions of area of review wells ($\frac{1}{2}$ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U). Other (specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing, and subsurface casing information.

SEP 25 1992

Area of Review Wells ($\frac{1}{2}$ mile radius around well) that Penetrate the Injection Interval

Line	Well #	Location	Owner	Depth	Type	Completion Date	Completion Type	Production Date	Production Type	Construction
Beary	54A	165' from (N)(S) sec. line 1652.26pm (E)(W) sec. line sec. 4 T. 46 N. R. 33W	Town Oil	640	0	1/81	1/81	Surface 9" hole 7" casing 20.583' Production 6 $\frac{1}{4}$ " hole 4" casing 629.80'		
Beary	54C	546.4' from (N)(S) sec. line 1652.2 from (E)(W) sec. line sec. 4 T. 46 N. R. 33W	Town Oil	640	0	12/ 80	12/ 80	Surface 9" hole 7" casing 21.583' Production 6 $\frac{1}{4}$ " hole 4" casing 630.6'		
Beary	54C1	546.6' from (N)(S) sec. line 16.3-2 from (E)(W) sec. line sec. 4 T. 46 N. R. 33W	Town Oil	520	0	1/81	1/81	Surface: 9" hole 7" casing 21.583' Production 6 $\frac{1}{4}$ " hole 4" casing 462.50'		
Beary	54E	930.2' from (N)(S) sec. line 1652.2 from (E)(W) sec. line sec. 4 T. 46 N. R. 33W	Town Oil	640	0	1/81	1/81	Surface 9" hole 7" casing 21.67' Production: 6 $\frac{1}{4}$ " hole 4" casing 628.35'		
Beary	B-55	355' from (N)(S) sec. line 1542' from (E)(W) sec. line sec. 4 T. 46 N. R. 33W	Town Oil	640	0	1/81	1/81	Surface 9" hole 7" casing 20.75' Production 6 $\frac{1}{4}$ " hole 4" casing 628.70'		
		from (N)(S) sec. line from (E)(W) sec. line								
		Sec. ____ T. ____ N. R. ____								
		from (N)(S) sec. line from (E)(W) sec. line								
		Sec. ____ T. ____ N. R. ____								
		from (N)(S) sec. line from (E)(W) sec. line								
		Sec. ____ T. ____ N. R. ____								

Instructions
In the above grid place the descriptions of area of review wells ($\frac{1}{2}$ mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease
name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other = specify), date spudded, date com-
pleted, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing,
and surface casing information.

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SEP 25 1992

AFFIDAVIT OF PUBLICATION

STATE OF MISSOURI
COUNTY OF CASS, ss.

PUBLIC NOTICE

Town Oil Company, Rt. 4, Paola, Kansas has applied for injection wells to be drilled to an approximate depth of 600 feet at the following locations:

Number	Distance from North Line of Section	Distance from East Line of Section	Published in said newspaper f
4-W	1000	2283	
41-W	1359	2434	Tuber 1 1992
20-W	847	2044	

Section 4, Township 46, Range 33, in Cass County, Missouri.

Written comments or request for additional information regarding such wells should be directed within fifteen (15) days of this notice to:
State Geologist, Missouri Oil and Gas Council, P.O. Box 250, Rolla, Missouri 65401.

October 1, 1992 19

5th insertion, Vol. _____ No. _____ dated _____ 19_____

6th insertion, Vol. _____ No. _____ dated _____ 19_____

Fee: \$ 48.00

Mark E. Cox
Publisher

Subscribed and sworn to before me this

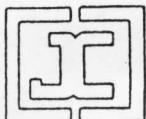
1st day of October 1992

Witness my hand and official seal.

Dora E. Nation
DORA E. NATION
Notary Public - State of Missouri
Commissioned in Cass County
My Commission Expires May 5, 1993

R E C E I V E D
OCT 07 1992

MO Oil & Gas Council



JACAM Chemical Partners, Ltd.

205 S. Broadway • (316) 278-3355 • FAX (316) 278-2112
STERLING, KANSAS 67579
U.S.A.

WATER ANALYSIS REPORT

					SHEET NUMBER	
COMPANY Town Oil					DATE 7/21/92	
FIELD		COUNTY OR PARISH		STATE KS		
EASE OR UNIT Walton		WELL(S) NAME OR NO.		WATER SOURCE (FORMATION)		
DEPTH FT.	BHT.F	SAMPLE SOURCE bleeder	TEMP. F	WATER BBL-DAY	OIL, BBL-DAY	GAS, MMCF-DAY
DATE SAMPLED		<input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY		<input type="checkbox"/> WATERFLOOD	<input type="checkbox"/> SALT WATER DISPOSAL	

1.

2.

3.

Specific Gravity	1.014			Milligrams per liter
Chlorides	14,000			Milligrams per liter
Calcium	480			Milligrams per liter
Magnesium	488			Milligrams per liter
Sulfates	325			Milligrams per liter
Bicarbonates	860			Milligrams per liter
Iron	15			Milligrams per liter
Hydrogen Sulfide	0			Milligrams per liter
Barium	0			Milligrams per liter
Total Dissolved Solids	24,241			Milligrams per liter
pH	6.6			Milligrams per liter
Sulfate Reducing Bacteria				Milligrams per liter
Sodium	8,073			Milligrams per liter
Sulfide	0			Milligrams per liter

REMARKS AND RECOMMENDATIONS

Mildly corrosive
Minimal deposits of Iron Sulfide and Calcium Carbonate are expected.

SF-6004
JC-3300

Mike will contact you regarding dosage.

RECEIVED
SEP 25 1992

ENGINEER	OFFICE PHONE	HOME PHONE	ANALYZED	DATE
Gene Zaid	800-248-0357	316-278-2451	Sheila Moon & Gas Council	